

Paolo Bergese

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	5,448 citations	24 h-index	73 g-index
91 ext. papers	7,618 ext. citations	7.4 avg, IF	4.71 L-index

#	Paper	IF	Citations
79	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1535750	16.4	3642
78	Tangential Flow Filtration for Highly Efficient Concentration of Extracellular Vesicles from Large Volumes of Fluid. <i>Cells</i> , 2018 , 7,	7.9	142
77	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1684862	16.4	97
76	Residual matrix from different separation techniques impacts exosome biological activity. <i>Scientific Reports</i> , 2016 , 6, 23550	4.9	95
75	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 629-635	28.7	92
74	Colorimetric nanoplasmonic assay to determine purity and titrate extracellular vesicles. <i>Analytical Chemistry</i> , 2015 , 87, 4168-76	7.8	67
73	Exosome-delivered microRNAs promote IFN- β secretion by human plasmacytoid DCs via TLR7. <i>JCI Insight</i> , 2018 , 3,	9.9	65
72	Interaction of nanoparticles with lipid membranes: a multiscale perspective. <i>Nanoscale</i> , 2014 , 6, 6452-7	7.7	53
71	Merging colloidal nanoplasmonics and surface plasmon resonance spectroscopy for enhanced profiling of multiple myeloma-derived exosomes. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 518-24	11.8	51
70	Surfactant titration of nanoparticle-protein corona. <i>Analytical Chemistry</i> , 2014 , 86, 12055-63	7.8	39
69	Cavitand-grafted silicon microcantilevers as a universal probe for illicit and designer drugs in water. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9183-8	16.4	39
68	Microwave generated nanocomposites for making insoluble drugs soluble. <i>Materials Science and Engineering C</i> , 2003 , 23, 791-795	8.3	39
67	A biofunctional polymeric coating for microcantilever molecular recognition. <i>Analytica Chimica Acta</i> , 2008 , 630, 161-7	6.6	36
66	AFM-Based High-Throughput Nanomechanical Screening of Single Extracellular Vesicles. <i>Analytical Chemistry</i> , 2020 , 92, 10274-10282	7.8	35
65	Embodied energy as key parameter for sustainable materials selection: The case of reusing coal fly ash for removing anionic surfactants. <i>Journal of Cleaner Production</i> , 2017 , 141, 230-236	10.3	35
64	Nanomechanical recognition of N-methylammonium salts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2392-8	16.4	35
63	High-resolution radon monitoring and hydrodynamics at Mount Vesuvius. <i>Geophysical Research Letters</i> , 2001 , 28, 4035-4038	4.9	31

62	Quantifying the nanomachinery of the nanoparticle-biomolecule interface. <i>Small</i> , 2011 , 7, 2477-84	11	30
61	Size distribution of extracellular vesicles by optical correlation techniques. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 158, 331-338	6	29
60	Atomic force microscopy evaluation of the effects of a novel antimicrobial multimeric peptide on <i>Pseudomonas aeruginosa</i> . <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007 , 3, 198-207	6	27
59	A simple solution to systematic errors in density determination by X-ray reflectivity: The XRR-density evaluation (XRR-DE) method. <i>Applied Surface Science</i> , 2006 , 253, 28-32	6.7	27
58	Melting of Nanostructured Drugs Embedded into a Polymeric Matrix. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15488-15493	3.4	26
57	Model lipid bilayers mimic non-specific interactions of gold nanoparticles with macrophage plasma membranes. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 284-294	9.3	25
56	Highlights of the SB Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication. <i>Journal of Extracellular Vesicles</i> , 2017 , 6, 1407213	16.4	24
55	Protein thin film machines. <i>Nanoscale</i> , 2010 , 2, 2570-4	7.7	24
54	Thermodynamics of mechanical transduction of surface confined receptor/ligand reactions. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 1017-22	9.3	24
53	RNA-seq reveals distinctive RNA profiles of small extracellular vesicles from different human liver cancer cell lines. <i>Oncotarget</i> , 2017 , 8, 82920-82939	3.3	23
52	Comparison between rice husk ash grown in different regions for stabilizing fly ash from a solid waste incinerator. <i>Journal of Environmental Management</i> , 2015 , 159, 128-134	7.9	22
51	Cavitands Endow All-Dielectric Beads With Selectivity for Plasmon-Free Enhanced Raman Detection of NEMethylated Lysine. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14944-51	9.5	22
50	Uptake Profiles of Human Serum Exosomes by Murine and Human Tumor Cells through Combined Use of Colloidal Nanoplasmonics and Flow Cytofluorimetric Analysis. <i>Analytical Chemistry</i> , 2018 , 90, 7853-7861	7.8	22
49	Specific heat, polarization and heat conduction in microwave heating systems: A nonequilibrium thermodynamic point of view. <i>Acta Materialia</i> , 2006 , 54, 1843-1849	8.4	22
48	Exosomes Secreted by HeLa Cells Shuttle on Their Surface the Plasma Membrane-Associated Sialidase NEU3. <i>Biochemistry</i> , 2017 , 56, 6401-6408	3.2	21
47	Fourier-transform Infrared (FT-IR) spectroscopy fingerprints subpopulations of extracellular vesicles of different sizes and cellular origin. <i>Journal of Extracellular Vesicles</i> , 2020 , 9, 1741174	16.4	21
46	Probing lysine mono-methylation in histone H3 tail peptides with an abiotic receptor coupled to a non-plasmonic resonator. <i>Nanoscale</i> , 2017 , 9, 8639-8646	7.7	20
45	Cultured human amniocytes express hTERT, which is distributed between nucleus and cytoplasm and is secreted in extracellular vesicles. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 706-711	3.4	20

44	Role of nanomechanics in canonical and noncanonical pro-angiogenic ligand/VEGF receptor-2 activation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14573-9	16.4	20
43	On the difference of equilibrium constants of DNA hybridization in bulk solution and at the solid-solution interface. <i>Journal of Molecular Recognition</i> , 2011 , 24, 182-7	2.6	18
42	The nanostructured secretome. <i>Biomaterials Science</i> , 2019 , 8, 39-63	7.4	18
41	Collapse of the Plasmacytoid Dendritic Cell Compartment in Advanced Cutaneous Melanomas by Components of the Tumor Cell Secretome. <i>Cancer Immunology Research</i> , 2019 , 7, 12-28	12.5	18
40	On the thermodynamics of biomolecule surface transformations. <i>Journal of Colloid and Interface Science</i> , 2012 , 375, 1-11	9.3	16
39	Nanomechanics of surface DNA switches probed by captive contact angle. <i>Journal of Colloid and Interface Science</i> , 2013 , 402, 334-9	9.3	16
38	Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. <i>Sensors</i> , 2009 , 9, 6471-503	3.8	16
37	Shedding light on membrane-templated clustering of gold nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2020 , 573, 204-214	9.3	16
36	Molecular recognition by contact angle: proof of concept with DNA hybridization. <i>Langmuir</i> , 2009 , 25, 4271-3	4	15
35	Extracellular vesicles from rat-bone-marrow mesenchymal stromal/stem cells improve tendon repair in rat Achilles tendon injury model in dose-dependent manner: A pilot study. <i>PLoS ONE</i> , 2020 , 15, e0229914	3.7	14
34	Biogenic Supported Lipid Bilayers from Nanosized Extracellular Vesicles. <i>Advanced Biology</i> , 2018 , 2, 1700290	9.9	14
33	Advances in parallel screening of drug candidates. <i>Current Medicinal Chemistry</i> , 2008 , 15, 1706-19	4.3	14
32	Analysis of a nanoparticle-enriched fraction of plasma reveals miRNA candidates for Down syndrome pathogenesis. <i>International Journal of Molecular Medicine</i> , 2019 , 43, 2303-2318	4.4	13
31	Biogenic supported lipid bilayers as a tool to investigate nano-bio interfaces. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 340-349	9.3	12
30	Augmented Colorimetric NANoplasmonic (CONAN) Method for Grading Purity and Determine Concentration of EV Microliter Volume Solutions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 452	5.8	12
29	Endogenous exosome labelling with an amphiphilic NIR-fluorescent probe. <i>Chemical Communications</i> , 2018 , 54, 7219-7222	5.8	12
28	Sensitive determination of the Young's modulus of thin films by polymeric microcantilevers. <i>Measurement Science and Technology</i> , 2013 , 24, 125603	2	12
27	Microstructural investigation of nimesulide/chitosan composites by X-ray diffraction and thermal analysis. <i>Composites Science and Technology</i> , 2003 , 63, 1197-1201	8.6	12

26	Micro X-ray diffraction on capillary powder samples: a novel and effective technique for overcoming preferred orientation. <i>Journal of Applied Crystallography</i> , 2001 , 34, 663-665	3.8	12
25	Nanoliter contact angle probes tumor angiogenic ligand-receptor protein interactions. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1571-5	11.8	11
24	Polymer-coated quartz crystal microbalance chemical sensor for heavy cations in water. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1164-8	1.3	10
23	Investigation of a biofunctional polymeric coating deposited onto silicon microcantilevers. <i>Applied Surface Science</i> , 2007 , 253, 4226-4231	6.7	10
22	Phase transformations in bulk nanostructured potassium niobosilicate glasses. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25740-5	3.4	10
21	Laboratory Microbeam Analysis Applied to Cultural Heritage Studies. <i>Mikrochimica Acta</i> , 2006 , 155, 101-104	1.04	10
20	Assessment of the X-ray diffraction-absorption method for quantitative analysis of largely amorphous pharmaceutical composites. <i>Journal of Applied Crystallography</i> , 2003 , 36, 74-79	3.8	10
19	Leveraging on nanomechanical sensors to single out active small ligands for α -microglobulin. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 1026-1031	8.5	8
18	Microstructure and morphology of nimesulide/crospovidone nanocomposites by Raman and electron microscopies. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 443-448	8.4	8
17	A plasmon-based nanoruler to probe the mechanical properties of synthetic and biogenic nanosized lipid vesicles. <i>Nanoscale Horizons</i> , 2021 , 6, 543-550	10.8	8
16	Self-assembled polystyrene nanospheres for the evaluation of atomic force microscopy tip curvature radius. <i>Measurement Science and Technology</i> , 2009 , 20, 084015	2	7
15	Cavitand-Grafted Silicon Microcantilevers as a Universal Probe for Illicit and Designer Drugs in Water. <i>Angewandte Chemie</i> , 2014 , 126, 9337-9342	3.6	6
14	Local order and non-linear optical properties in bulk nanostructured niobosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1218-1222	3.9	5
13	Energetics of surface confined ferritin during iron loading. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 145, 520-525	6	5
12	Exploitation of a novel biosensor based on the full-length human F508del-CFTR with computational studies, biochemical and biological assays for the characterization of a new Lumacaftor/Tezacaftor analogue. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 127131	8.5	4
11	ZnO whiskers and belts in chestnut husk-like structures: synthesis and proof of chemomechanical transduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1597-602	1.3	4
10	Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
9	Thermal transformations and stability of organometallic materials with electrical and optical properties: the case of polycrystalline cis-[Ir(CO) ₂ Cl(C ₅ H ₅ N)]. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 711-5	3.4	3

8	AFM-based High-Throughput Nanomechanical Screening of Single Extracellular Vesicles		3
7	BMP6 binding to heparin and heparan sulfate is mediated by N-terminal and C-terminal clustered basic residues. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021 , 1865, 129799	4	3
6	Thermodynamics of (Nano)interfaces 2014 , 1-31		2
5	Interaction of Extracellular Vesicles with Si Surface Studied by Nanomechanical Microcantilever Sensors. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 404	2.6	2
4	Exploiting Exosomes for Differential Diagnosis of Multiple Myeloma and Monoclonal Gammopathy of Undetermined Significance 2017 ,		1
3	Extracellular vesicles in regenerative medicine 2020 , 29-58		1
2	Analysis of livestock DNA using nanotechnologies. <i>Italian Journal of Animal Science</i> , 2007 , 6, 166-166	2.2	
1	Thermodynamics of (nano)interfaces 2022 , 13-56		